



CENTRE NATIONAL D'ÉTUDES SPATIALES

# **42<sup>nd</sup> ARGOS OPSCOM**

**New London , USA  
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## **E2 – ARGOS-3 INSTRUMENTS**

### METOP-1 (should become METOP-B) :

- First satellite built by Astrium in an uncompleted version.
- The first A-DCS flight model FM1 delivered to Alenia in February 2002 has been replaced in August 2004 by the **FM5**
- A-DCS dismounted from Metop-B in February 2008 for retrofit (Metop-A Anomalies)
- HW and SW upgrades (v 1.9) performed in Thales in summer 2008
- TRR of A-DCS FM5 on 14 October 2008 with Thales
- DRB with Eumetsat/ESA/Astrium-D on 31 October 2008
- Instruments mounted again (and tested : IST) on satellite in January 2009

### **METOP-3 (should become METOP-C):**

- The Argos-3 instrument on-board METOP-3 is the Flight Model **FM4** (delivered to Alenia in May 2003).
- Processing software reloaded in May 2004 in Astrium-D.
- ADCS dismounted from Metop-C in June 2008 for retrofit (Metop-A Anomalies)
- HW and SW upgrades (v 1.9) performed in Thales in autumn 2008
- TRR of A-DCS FM4 on 24 November 2008 with Thales
- DRB with Eumetsat/ESA/Astrium-D on 2 December 2008
- ADCS back in Astrium-D in December 2008
- ADCS will be mounted again on satellite end of August 2009, then **IST tests will be performed by Astrium-D and CNES.**

- The Flight Model FM1 was initially mounted on-board METOP-1, but it has been dismounted in 2004 since it was not in its final state.
- Upgrade of the instrument done early 2005.
- In August 2008, TM corruption anomaly occurred on side 2 during the long duration tests.
- FM1 was used to investigate the Metop-A anomaly (FIFO) and to validate the new management software (v 1.9).
- In May/June 2008, FM1 was fully upgraded (HW and SW) in Thalès
- Complementary shock tests have been performed (July 08) to be compliant with ISRO requirements
- TRR of A-DCS FM1 in September 2008.
- A-DCS FM1 currently in storage in CNES, shall be delivered to TAS (Thales Alenia Space) for integration on PIM in July 2009.